

WEST Search History

DATE: Wednesday, May 12, 2004

Hide?	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L4	l2 not L3	23
<input type="checkbox"/>	L3	L1 with luciferase	4
<input type="checkbox"/>	L2	L1 and luciferase	27
<input type="checkbox"/>	L1	phrixothrix	27

END OF SEARCH HISTORY

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Clear

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Bkwd Refs

Generate OACS

Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20030135871 A1

Using default format because multiple data bases are involved.

L3: Entry 1 of 4

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030135871

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030135871 A1

TITLE: Modified railroad worm red luciferase coding sequences

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nawotka, Kevin A.	Alameda	CA	US	
Zhang, Weisheng	Fremont	CA	US	

US-CL-CURRENT: 800/8; 435/320.1, 435/325, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Drawings
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☐ 2. Document ID: US 20020119542 A1

L3: Entry 2 of 4

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020119542

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020119542 A1

TITLE: Nucleic acid molecules encoding red and green emitting luciferases

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Viviani, Vadim R.	Somerville	MA	US	
Ohmiya, Yoshihiro	Shimizu		JP	

US-CL-CURRENT: 435/189; 435/320.1, 435/325, 435/69.1, 435/8, 536/23.2

h e b b g e e e f e c e f b e

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: WO 3016839 A2

L3: Entry 3 of 4

File: EPAB

Feb 27, 2003

PUB-NO: WO003016839A2

DOCUMENT-IDENTIFIER: WO 3016839 A2

TITLE: MODIFIED RAILROAD WORM RED LUCIFERASE CODING SEQUENCES

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 4. Document ID: US 20030135871 A1, WO 2003016839 A2

L3: Entry 4 of 4

File: DWPI

Jul 17, 2003

DERWENT-ACC-NO: 2003-268358

DERWENT-WEEK: 200348

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TITLE: Novel modified polynucleotide of Phrixothrix hirtus red luciferase encoding polypeptide capable of mediating light-production, useful as reporter molecule in host cells and/or transgenic animals

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L1 with luciferase	4

Display Format:

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Search Results - Record(s) 1 through 10 of 23 returned.

☐ 1. Document ID: US 20040002127 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 23

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002127

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002127 A1

TITLE: Luciferase and photoprotein

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Inouye, Satoshi	Yokohama-shi		JP	

US-CL-CURRENT: 435/8; 435/191, 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Drawings
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☐ 2. Document ID: US 20030113741 A1

L4: Entry 2 of 23

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113741

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030113741 A1

TITLE: Apparatus and method for detecting and identifying infectious agents

PUBLICATION-DATE: June 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bryan, Bruce J.	Beverly Hills	CA	US	
Gaalema, Stephen	Colorado Springs	CO	US	
Murphy, Randall B.	Irvington	NY	US	

US-CL-CURRENT: 435/6; 435/287.2, 435/7.9

h e b b g e e e f e c ef b e

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20030092098 A1

L4: Entry 3 of 23

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092098
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030092098 A1

TITLE: Renilla reniformis fluorescent proteins, nucleic acids encoding the fluorescent proteins and the use thereof in diagnostics, high throughput screening and novelty items

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bryan, Bruce	Beverly Hills	CA	US	
Szent-Gyorgyi, Christopher	Pittsburgh	PA	US	
Szczepaniak, William	Pittsburgh	PA	US	

US-CL-CURRENT: 435/69.1; 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 20030066096 A1

L4: Entry 4 of 23

File: PGPB

Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030066096
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030066096 A1

TITLE: Bioluminescent novelty items

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bryan, Bruce	Beverly Hills	CA	US	

US-CL-CURRENT: 800/8; 162/162, 42/54, 424/450, 424/456, 424/70.14, 442/131

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 20030059798 A1

L4: Entry 5 of 23

File: PGPB

Mar 27, 2003

h e b b g e e e f e c e f b e

PGPUB-DOCUMENT-NUMBER: 20030059798
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030059798 A1

TITLE: Apparatus and method for detecting and identifying infectious agents

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bryan, Bruce J.	Beverly Hills	CA	US	
Gaalema, Stephen	Colorado Springs	CO	US	
Murphy, Randall B.	Irvington	NY	US	

US-CL-CURRENT: 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 6. Document ID: US 20030013103 A1

L4: Entry 6 of 23

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030013103
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030013103 A1

TITLE: Apparatus and method for detecting and identifying infectious agents

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bryan, Bruce J.	Beverly Hills	CA	US	
Gaalema, Stephen	Colorado Springs	CO	US	
Murphy, Randall B.	Irvington	NY	US	

US-CL-CURRENT: 435/6; 356/319, 435/287.2, 435/7.9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 7. Document ID: US 20020102687 A1

L4: Entry 7 of 23

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020102687
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020102687 A1

TITLE: Luciferase and photoprotein

h e b b g e e e f e c e f b e

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Inouye, Satoshi	Yokohama-shi		JP	

US-CL-CURRENT: 435/189; 435/325, 435/8, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw. De
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☐ 8. Document ID: US 20020090659 A1

L4: Entry 8 of 23

File: PGPB

Jul 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020090659

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020090659 A1

TITLE: Detection and visualization of neoplastic tissues and other tissues

PUBLICATION-DATE: July 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bryan, Bruce	Beverly Hills	CA	US	

US-CL-CURRENT: 435/7.23; 424/9.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw. De
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☐ 9. Document ID: US 20020004942 A1

L4: Entry 9 of 23

File: PGPB

Jan 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020004942

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020004942 A1

TITLE: Bioluminescent novelty items

PUBLICATION-DATE: January 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bryan, Bruce	Beverly Hills	CA	US	

US-CL-CURRENT: 800/288

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw. De
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☐ 10. Document ID: US 6682899 B2

L4: Entry 10 of 23

File: USPT

Jan 27, 2004

US-PAT-NO: 6682899

DOCUMENT-IDENTIFIER: US 6682899 B2

TITLE: Apparatus and method for detecting and identifying infectious agents

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNAC	Draw. D.
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L2 not L3	23

Display Format:

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Search Results - Record(s) 11 through 20 of 23 returned.

☐ 11. Document ID: US 6649357 B2

Using default format because multiple data bases are involved.

L4: Entry 11 of 23

File: USPT

Nov 18, 2003

US-PAT-NO: 6649357

DOCUMENT-IDENTIFIER: US 6649357 B2

TITLE: Apparatus and method for detecting and identifying infectious agents

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bryan; Bruce J.	Beverly Hills	CA		
Gaalema; Stephen	Colorado Springs	CO		
Murphy; Randall B.	Irvington	NY		

US-CL-CURRENT: [435/7.1](#); [356/215](#), [356/222](#), [356/317](#), [422/57](#), [422/58](#), [422/68.1](#),
[422/82.05](#), [422/82.08](#), [435/288.7](#), [435/6](#), [435/7.9](#), [435/808](#), [435/973](#), [435/975](#),
[436/164](#), [436/172](#), [436/518](#), [436/524](#), [436/527](#), [436/532](#), [436/805](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 12. Document ID: US 6649356 B2

L4: Entry 12 of 23

File: USPT

Nov 18, 2003

US-PAT-NO: 6649356

DOCUMENT-IDENTIFIER: US 6649356 B2

TITLE: Apparatus and method for detecting and identifying infectious agents

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 13. Document ID: US 6596257 B2

L4: Entry 13 of 23

File: USPT

Jul 22, 2003

US-PAT-NO: 6596257

DOCUMENT-IDENTIFIER: US 6596257 B2

h e b b c g b c c e

TITLE: Detection and visualization of neoplastic tissues and other tissues

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 14. Document ID: US 6544754 B2

L4: Entry 14 of 23

File: USPT

Apr 8, 2003

US-PAT-NO: 6544754

DOCUMENT-IDENTIFIER: US 6544754 B2

TITLE: Oplophorus luciferase subunits

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 15. Document ID: US 6458547 B1

L4: Entry 15 of 23

File: USPT

Oct 1, 2002

US-PAT-NO: 6458547

DOCUMENT-IDENTIFIER: US 6458547 B1

TITLE: Apparatus and method for detecting and identifying infectious agents

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 16. Document ID: US 6436682 B1

L4: Entry 16 of 23

File: USPT

Aug 20, 2002

US-PAT-NO: 6436682

DOCUMENT-IDENTIFIER: US 6436682 B1

TITLE: Luciferases, fluorescent proteins, nucleic acids encoding the luciferases and fluorescent proteins and the use thereof in diagnostics, high throughput screening and novelty items

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 17. Document ID: US 6416960 B1

L4: Entry 17 of 23

File: USPT

Jul 9, 2002

US-PAT-NO: 6416960

DOCUMENT-IDENTIFIER: US 6416960 B1

TITLE: Detection and visualization of neoplastic tissues and other tissues

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 18. Document ID: US 6247995 B1

L4: Entry 18 of 23

File: USPT

Jun 19, 2001

US-PAT-NO: 6247995

DOCUMENT-IDENTIFIER: US 6247995 B1

TITLE: Bioluminescent novelty items

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 19. Document ID: US 6232107 B1

L4: Entry 19 of 23

File: USPT

May 15, 2001

US-PAT-NO: 6232107

DOCUMENT-IDENTIFIER: US 6232107 B1

TITLE: Luciferases, fluorescent proteins, nucleic acids encoding the luciferases and fluorescent proteins and the use thereof in diagnostics, high throughput screening and novelty items

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 20. Document ID: US 6152358 A

L4: Entry 20 of 23

File: USPT

Nov 28, 2000

US-PAT-NO: 6152358

DOCUMENT-IDENTIFIER: US 6152358 A

**** See image for Certificate of Correction ****

TITLE: Bioluminescent novelty items

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L2 not L3	23

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Generate OACS				

Search Results - Record(s) 21 through 23 of 23 returned.

☐ 21. Document ID: US 6113886 A

Using default format because multiple data bases are involved.

L4: Entry 21 of 23

File: USPT

Sep 5, 2000

US-PAT-NO: 6113886

DOCUMENT-IDENTIFIER: US 6113886 A

**** See image for Certificate of Correction ****

TITLE: Bioluminescent novelty items

DATE-ISSUED: September 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bryan; Bruce	Beverly Hills	CA	90210	

US-CL-CURRENT: 424/49; 424/63, 424/64, 424/69, 424/70.1, 424/70.6, 424/70.7,
424/78.02, 424/94.4, 435/189, 510/119, 510/135, 510/392, 510/481

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WWW	Draw De
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☐ 22. Document ID: US 5876995 A

L4: Entry 22 of 23

File: USPT

Mar 2, 1999

US-PAT-NO: 5876995

DOCUMENT-IDENTIFIER: US 5876995 A

**** See image for Certificate of Correction ****

TITLE: Bioluminescent novelty items

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WWW	Draw De
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☐ 23. Document ID: US 20020119542 A1

L4: Entry 23 of 23

File: DWPI

Aug 29, 2002

DERWENT-ACC-NO: 2002-618950

DERWENT-WEEK: 200266

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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 JAN 27 Source of Registration (SR) information in REGISTRY updated
and searchable
NEWS 4 JAN 27 A new search aid, the Company Name Thesaurus, available in
CA/Caplus
NEWS 5 FEB 05 German (DE) application and patent publication number format
changes
NEWS 6 MAR 03 MEDLINE and LMedline reloaded
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 8 MAR 03 FRANCEPAT now available on STN
NEWS 9 MAR 29 Pharmaceutical Substances (PS) now available on STN
NEWS 10 MAR 29 WPIFV now available on STN
NEWS 11 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS 12 APR 26 PROMT: New display field available
NEWS 13 APR 26 IFIPAT/IFIUDB/IFICDB: New super search and display field
available
NEWS 14 APR 26 LITAlert now available on STN
NEWS 15 APR 27 NLDB: New search and display fields available
NEWS 16 May 10 PROUSDDR now available on STN
NEWS 17 May 19 PROUSDDR: One FREE connect hour, per account, in both May
and June 2004
NEWS 18 May 12 EXTEND option available in structure searching
NEWS 19 May 12 Polymer links for the POLYLINK command completed in REGISTRY

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
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=> s phrixothrix and luciferase
L1 41 PHRIXOTHRIX AND LUCIFERASE

=> dup rem l1
PROCESSING COMPLETED FOR L1
L2 13 DUP REM L1 (28 DUPLICATES REMOVED)

=> d 1-13

L2 ANSWER 1 OF 13 MEDLINE on STN
AN 2004219564 IN-PROCESS
DN PubMed ID: 15118331
TI Improved Expression of Novel Red- and Green-emitting ***Luciferases***
of ***Phrixothrix*** Railroad Worms in Mammalian Cells.
AU Nakajima Yoshihiro; Kimura Takuma; Suzuki Chie; Ohmiya Yoshihiro
CS Cell Dynamics Research Group, Research Institute for Cell Engineering,
National Institute of Advanced Industrial Science and Technology (AIST).
SO Bioscience, biotechnology, and biochemistry, (2004 Apr) 68 (4) 948-51.
Journal code: 9205717. ISSN: 0916-8451.
CY Japan
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS IN-DATA-REVIEW; IN-PROCESS; NONINDEXED; Priority Journals
ED Entered STN: 20040501
Last updated on STN: 20040501

L2 ANSWER 2 OF 13 MEDLINE on STN
AN 2004237193 IN-PROCESS
DN PubMed ID: 15135064
TI Bidirectional role of orphan nuclear receptor RORalpha in clock gene
transcriptions demonstrated by a novel reporter assay system.
AU Nakajima Yoshihiro; Ikeda Masaaki; Kimura Takuma; Honma Sato; Ohmiya
Yoshihiro; Honma Ken-Ichi
CS Cell Dynamics Research Group, Research Institute for Cell Engineering,
National Institute of Advanced Industrial Science and Technology (AIST),
Midorigaoka, Ikeda, Osaka 563-8577, Japan.
SO FEBS letters, (2004 May 7) 565 (1-3) 122-6.
Journal code: 0155157. ISSN: 0014-5793.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS IN-DATA-REVIEW; IN-PROCESS; NONINDEXED; Priority Journals
ED Entered STN: 20040512
Last updated on STN: 20040512

L2 ANSWER 3 OF 13 MEDLINE on STN DUPLICATE 1
AN 2004155193 IN-PROCESS

DN PubMed ID: 15047906
 TI The influence of the region between residues 220 and 344 and beyond in
 Phrixotrix railroad worm ***luciferases*** green and red bioluminescence.
 AU Viviani Vadim R; Joaquim da Silva Neto Antonio; Ohmiya Yoshihiro
 CS Department of Molecular and Cellular Biology, Harvard University,
 Cambridge, MA, USA.. viviani@rc.unesp.br
 SO Protein Eng Des Sel, (2004 Feb) 17 (2) 113-7.
 Journal code: 101186484. ISSN: 1741-0126.
 CY England: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS IN-PROCESS; NONINDEXED; Priority Journals
 ED Entered STN: 20040330
 Last Updated on STN: 20040427

L2 ANSWER 4 OF 13 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 2
 AN 2004:137278 BIOSIS
 DN PREV200400140438
 TI An in vivo dual-reporter system of cyanobacteria using two railroad-worm
 luciferases with different color emissions.
 AU Kitayama, Yohko; Kondo, Takao; Nakahira, Yoichi; Nishimura, Hideya;
 Ohmiya, Yoshihiro; Oyama, Tokitaka [Reprint Author]
 CS Department of Biological Science, Graduate School of Science, Core
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 Technology Agency (JST), Nagoya University, Furo-cho, Chikusa-ku, Nagoya,
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 oyama@biol1.bio.nagoya-u.ac.jp
 SO Plant and Cell Physiology, (January 2004) Vol. 45, No. 1, pp. 109-113.
 print.
 ISSN: 0032-0781 (ISSN print).
 DT Article
 LA English
 ED Entered STN: 10 Mar 2004
 Last Updated on STN: 10 Mar 2004

L2 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2004:146485 HCAPLUS
 DN 140:214271
 TI Basic and application principle on the bioluminescence system of insect
 luciferases
 AU Ohmiya, Yoshihiro
 CS Cell Dynamics Res. Group., The Special Div. Human Life Technol., Natl.
 Inst. Adv. Ind. Sci. Technol., Ikeda, 563-8577, Japan
 SO Seikagaku (2004), 76(1), 5-15
 CODEN: SEIKAQ; ISSN: 0037-1017
 PB Nippon Seikagakkai
 DT Journal; General Review
 LA Japanese

L2 ANSWER 6 OF 13 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2003-12415 BIOTECHDS
 TI Novel modified polynucleotide of ***Phrixothrix*** hirtus red
 luciferase encoding polypeptide capable of mediating
 light-production, useful as reporter molecule in host cells and/or
 transgenic animals;
 recombinant enzyme protein production useful for gene expression
 monitoring
 AU NAWOTKA K A; ZHANG W
 PA XENOGEN CORP
 PI WO 2003016839 27 Feb 2003
 AI WO 2002-US26170 15 Aug 2002
 PRAI US 2001-312697 15 Aug 2001; US 2001-312687 15 Aug 2001
 DT Patent
 LA English
 OS WPI: 2003-268358 [26]

L2 ANSWER 7 OF 13 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2003-01481 BIOTECHDS
 TI Nucleic acid molecules encoding ***luciferases*** used as diagnostic
 tools;
 vector-mediated ***Phrixothrix*** vivianii recombinant enzyme gene
 transfer and expression in host cell for disease diagnosis
 AU VIVIANI V R; OHMIYA Y
 PA VIVIANI V R; OHMIYA Y

PI US 2002119542 29 Aug 2002
AI US 2001-993874 14 Nov 2001
PRAI US 2001-993874 14 Nov 2001, US 1999-388290 1 Sep 1999
DT Patent
LA English
OS WPI: 2002-618950 [66]

L2 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:108762 HCAPLUS
DN 139:318832
TI The structural determinants of bioluminescence colors in railroad worm and other pH-insensitive ***luciferases***
AU Viviani, V. R.; Uchida, A.; Viviani, W.; Ohmiya, Y.
CS Dept of Molecular and Cellular Biology, Harvard University, Cambridge, MA, USA
SO Bioluminescence & Chemiluminescence: Progress & Current Applications, [Proceedings of the Symposium on Bioluminescence and Chemiluminescence], 12th, Cambridge, United Kingdom, Apr. 5-9, 2002 (2002), 19-22. Editor(s): Stanley, Philip E.; Kricka, Larry J. Publisher: World Scientific Publishing Co. Pte. Ltd., Singapore, Singapore.
CODEN: 69DPGZ; ISBN: 981-238-156-2
DT Conference
LA English
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:269080 HCAPLUS
DN 134:277609
TI Luminescence assay system using luminescence reporter gene
IN Omiya, Katsuhiko; Ryufuku, Masayuki; Ono, Shoji; Takeuchi, Hideyuki
PA Toyo Ink Mfg. Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001103956	A2	20010417	JP 1999-288932	19991012
	WO 2001027316	A1	20010419	WO 2000-JP7049	20001011
	W: US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	JP 1999-288932	A	19991012		

L2 ANSWER 10 OF 13 MEDLINE on STN DUPLICATE 5
AN 2001151807 MEDLINE
DN PubMed ID: 11162668
TI Thr226 is a key residue for bioluminescence spectra determination in beetle ***luciferases***
AU Viviani V; Uchida A; Suenaga N; Ryufuku M; Ohmiya Y
CS Department of Biochemistry, Shizuoka University, Shizuoka-shi, Japan.. viviani@fas.harvard.edu
SO Biochemical and biophysical research communications, (2001 Feb 9) 280 (5) 1286-91.
Journal code: 0372516. ISSN: 0006-291X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200103
ED Entered STN: 20010404
Last Updated on STN: 20010404
Entered Medline: 20010315

L2 ANSWER 11 OF 13 MEDLINE on STN DUPLICATE 6
AN 2000440153 MEDLINE
DN PubMed ID: 10946582
TI Bioluminescence color determinants of ***Phrixothrix*** railroad-worm ***luciferases*** : chimeric ***luciferases***, site-directed mutagenesis of Arg 215 and guanidine effect.
AU Viviani V R; Ohmiya Y
CS Department of Molecular and Cell Biology, Harvard University, Cambridge, MA, USA.. viviani@fas.harvard.edu
SO Photochemistry and photobiology, (2000 Aug) 72 (2) 267-71.

Journal code: 0376425. ISSN: 0031-8655.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200009
ED Entered STN: 20000928
Last Updated on STN: 20000928
Entered Medline: 20000918

L2 ANSWER 12 OF 13 MEDLINE on STN DUPLICATE 7
AN 1999315203 MEDLINE
DN PubMed ID: 10387072
TI Cloning, sequence analysis, and expression of active ***Phrixothrix***
railroad-worms ***luciferases*** : relationship between bioluminescence
spectra and primary structures.
AU Viviani V R; Bechara E J; Ohmiya Y
CS Department of Biochemistry, Faculty of Education, Shizuoka University,
Japan.. viviani@fas.harvard.edu
SO Biochemistry, (1999 Jun 29) 38 (26) 8271-9.
Journal code: 0370623. ISSN: 0006-2960.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS GENBANK-AF139644; GENBANK-AF139645
EM 199907
ED Entered STN: 19990730
Last Updated on STN: 19990730
Entered Medline: 19990722

L2 ANSWER 13 OF 13 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 8
AN 93:643530 SCISEARCH
GA The Genuine Article (R) Number: MC107
TI BIOPHYSICAL AND BIOCHEMICAL ASPECTS OF PHENGODID (RAILROAD-WORM)
BIOLUMINESCENCE
AU VIVIANI V R; BECHARA E J H (Reprint)
CS UNIV SAO PAULO, INST QUIM, DEPT BIOQUIM, POB 20780, BR-01498 SAO PAULO,
BRAZIL
CYA BRAZIL
SO PHOTOCHEMISTRY AND PHOTOBIOLOGY, (OCT 1993) Vol. 58, No. 4, pp. 615-622.
ISSN: 0031-8655.
DT Article; Journal
FS LIFE
LA ENGLISH
REC Reference Count: 45
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

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L2 ANSWER 13 OF 13 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 8
AB In studies of the bioluminescence of 11 species of phengodid collected
in central and southeast Brazil, we have found that: (1) their lateral
lanterns emit light in the yellow-green region (λ_{max} = 540-580 nm)
and the head lantern color is shifted to the red region (λ_{max} =
565-620 nm), (2) the luciferins of both types of lanterns are identical to
that of lampyrids and elaterids and (3) the ***luciferase***
physicochemical properties are also similar to those of lampyrids and
elaterids (optimum pH ca 8.1; $K(m)(\text{ATP})$ = 260-370 μM , $K(m)(\text{luciferin})$ =
170-400 μM , molecular weight ca 60 kDa; apparent activation energy of in
vitro bioluminescence ca 58 kJ/mol). Thus the bioluminescence system of
phengodids appears to be essentially the same as that of lampyrids and
elaterids. The different bioluminescence colors of the lanterns of
Phrixothrix species (λ_{head} = 600-620 nm; λ_{lateral} =
535-565 nm) and other phengodid species are probably elicited by the
presence of ***luciferase*** isoenzymes, as occurs in the case of
elaterid prothoracic and abdominal lanterns.

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FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,
NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 18:52:54 ON 12 MAY 2004

L1 41 S PHRIXOTHRUX AND LUCIFERASE
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